	BUSIN	IESS N	MATHEMATICS I							
1	Course Title:	BUSINE	SS MATHEMATICS I							
2	Course Code:	ISL1401								
3	Type of Course:	Compulsory								
4	Level of Course:		First Cycle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Doç. Dr. GÜL EMEL								
15	Course Lecturers:	Doç. Dr. Gül EMEL Yar.Doç.Dr.Burcu AVCI ÖZTÜRK								
16	Contact information of the Course Coordinator:	ggokay@uludag.edu.tr Tel: 0224 29 41055								
17	Website:									
18	Objective of the Course:	To provide students with basic knowledge of Business Mathematics, to develop their ability to apply the knowledge to special business cases and to evaluate the solutions of the problems carefully.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To be able to know basic mathematical rules.							
		2	To be able to comprehend the importance of the math for the business.							
		3	To be able to state the business related problems with equations.							
		4	To be able to express the concepts like revenue, cost and profit mathematically.							
		5	To be able to calculate simple and compound interests							
		6	To be able to analyze the details of the mathematical model of the problem with limit and derivative rules							
		7	To be able to synthesise the outcome data							
		8	To be able to interpret the solutions and evaluate the mathematical models							
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
	Theoretical		Practice							
1	Linear equations, linear functions ar graphs	nd their								
2	Linear inequalities and their graphs									

3		ost, revenue and profit functions and eakeven point computation																		
4		Polynomial nonlinear functions																		
5	Logari	garithmic and exponential functions																		
6	Busine	usiness applications of nonlinear functions																		
7	Seque	ence	es and	d serie	es (Mi	dterm I	Exam))												
8	Intere	st c	alcula	tions	and a	pplicati	ions													
9	Limits	an	d cont	tingen	су															
10		Description of the derivatives, rate of change, rules of derivatives.																		
11	functio	Derivatives of implicit functions, logaritmic functions and functions of which exponent is a function, high order derivatives.																		
12		Derivatives, continuity, differential, indefinite orms and L'hospital rule.																		
13		Increasing and decreasing functions, extreme and turning points and drawing curves.																		
14		Max. profit, min cost calcultions and business examples																		
22	22 Textbooks, References and/or Other Materials:								So * M An	* Mustafa Aytaç, Mustafa Sevüktekin, Erkan Işığıçok, Sosyal Bilimlerde Matematik, Ezgi Kitabevi, Bursa, 2010. * Mustafa Sevüktekin, Zehra Başkaya, Matematiksel Analiz: İşletme ve Ekonomi Uygulamaları, Dora Yayıncılık, Bursa, 2010.										
Activites									Numb			Dura	Duration (hour)			Total Work Load (hour)				
Theoretical								1	4			3.00	3.00			42.00				
Practicals/Labs								C)			0.00			0.00					
Self stu									. WĘ	ight 4			4.00			56.00				
Homew	Homeworks)			0.00			0.00				
Bigject	Brojects 0									0			0.00	0.00			0.00			
Field St	eld Studies)			0.00				0.00			
Middeen	Raman	IS					1		601	00			25.00	25.00			25.00			
Others									C	0				0.00			0.00			
Einatrite	Contributions of Term (Year) Learning Activities to								40	00			30.00		30.00					
Total Work Load															178.00					
Cotat riko	atioloe	đFi	370ahE:	xam to	Suco	cess G	rade		60.	60.00					5.10					
ECTS Credit of the Course									5.00											
Measur Course		an	d Eva	luatio	n Tec	hnique	s Use	d in th	е											
24	ECTS	S /	WO	RK L	OAD	TAB	LE													
25			(CON	TRIE		N OF	E LE	ARN	ING	ουτα	OME	S TO I	ROC	RAM	ME				
											JALIFICATIONS									
	P	ຊ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	3		5	2	3	0	4	5	2	5	4	1	0	0	0	0	0			
ÖK2	3		5	2	3	0	4	5	2	5	4	1	0	0	0	0	0			
ÖK3	3		5	2	3	0	4	5	1	5	4	1	0	0	0	0	0			

Contrib ution Level:	ution			2 low			3 Medium			4 High			5 Very High			
LO: Learning Objectives PQ: Program Qualifications																
ÖK8	3	5	3	2	0	3	4	3	5	4	1	0	0	0	0	0
ÖK7	3	4	2	2	0	4	3	3	5	4	1	0	0	0	0	0
ÖK6	1	5	2	1	0	2	3	2	5	3	1	0	0	0	0	0
ÖK5	2	4	2	3	0	5	5	1	5	2	1	0	0	0	0	0
ÖK4	3	5	2	2	0	4	5	2	5	3	1	0	0	0	0	0